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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/606,141	06/25/2003	Lieven Wulteputte	216398	3956

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EXAMINER

BUSHEY, CHARLES S

ART UNIT	PAPER NUMBER
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1724

DATE MAILED: 08/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Supplemental
Notice of Allowability**

Application No.

10/606,141

Examiner

Scott Bushey

Applicant(s)

WULTEPUTTE, LIEVEN

Art Unit

1724

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the printer's requirement for drawing and specification changes.
2. ☒ The allowed claim(s) is/are 1-6.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Y. Kurt Chang, Reg. No. 41,397 on July 24, 2006.

The application has been amended as follows:

In the Specification:

Replace paragraph [0011] with:

[0011] FIG. 2 is a more detailed block diagram representation of the spraying control system shown in FIG. 1; FIGS. 3 and 4 are graphs of liquid flow rate as a function of air pressure; and FIG. 5 is a graph showing the relationship between flow rate and liquid pressure, air capacity, and drop size.

Replace paragraph [0034] with:

[0034] In this illustrative example, the controller 80 utilizes the shaded area in Table I above to calculate the desired air pressure that will be provided to the spray nozzle 20. In this way, the relationship between the liquid flow rate and the air pressure applied to the nozzle may be plotted in accordance with ~~Table Below~~ as follows: FIG. 3.

Delete the graph marked as TABLE II between paragraphs [0034] and [0035].

Replace paragraph [0037] with:

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[0037] In certain instances, the worst-case condition for compressed air requirements may be located at a diminished liquid flow rate, as shown in ~~Table III below~~ in FIG. 4.

Delete the graph marked as TABLE III between paragraphs [0037] and [0038].

Replace paragraph [0039] with:

[0039] The potential savings of compressed air can be further explained from the following graph of FIG. 5 for a typical spray nozzle utilized in the preferred implementation of the invention. In this instance, the spray nozzle is a FloMax nozzle manufactured by the assignee of the present invention.

Delete the graph between paragraphs [0039] and [0040].

Replace paragraph [0040] with:

[0040] ~~The above graph~~ FIG. 5 illustrates the performance values of a type FM5 FloMax nozzle, manufactured by Spraying Systems Co., operating at a constant air pressure of 60 pounds per square inch. From the graph, the air-flow rate increases when the liquid flow rate goes decreases (e.g., at 7 GPM liquid, the nozzle needs 83 scfm air, while at 2 GPM liquid the nozzle needs 115scfm air). At the same time, the Dmax also tends to decrease. On the other hand, at lower liquid flow rate conditions, a lower Dmax is usually not required. Accordingly, the air pressure can be decreased. This results in less air consumption by the system.

REQUIRED DRAWING CHANGES

2. The following changes to the drawings have been approved by the examiner and agreed upon by applicant: Applicant has agreed to submit new drawing Figures 3-5 as "New Sheets" of drawing to place the application in compliance with 37 CFR 1.81. In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Bushey whose telephone number is 571 272-1153. The examiner can normally be reached on M-Th 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.


Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Scott Bushey
Primary Examiner
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